

## SEQUENCE LISTING

<110> James Karras  
Thomas Condon

<120> ANTISENSE MODULATION OF MACROPHAGE INFLAMMATORY PROTEIN 3-ALPHA  
EXPRESSION

<130> ISPH-0623

<160> 32

<210> 1

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 1

tccgtcatcg ctcttcaggg

20

<210> 2

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 2

atgcattctg cccccaagga

20

<210> 3

<211> 799

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (59)...(349)

<400> 3

cactcccaaa gaactgggta ctcaacactg agcagatctg ttctttgagc taaaaaacc

58

atg tgc tgt acc aag agt ttg ctc ctg gct gct ttg atg tca gtg ctg

106

Met Cys Cys Thr Lys Ser Leu Leu Leu Ala Ala Leu Met Ser Val Leu

1

5

10

15

cta ctc cac ctc tgc ggc gaa tca gaa gca gca agc aac ttt gac tgc

154

Leu Leu His Leu Cys Gly Glu Ser Glu Ala Ala Ser Asn Phe Asp Cys

20

25

30

tgt ctt gga tac aca gac cgt att ctt cat cct aaa ttt att gtg ggc

202

Cys Leu Gly Tyr Thr Asp Arg Ile Leu His Pro Lys Phe Ile Val Gly

35

40

45

10033742.122801

ttc aca cgg cag ctg gcc aat gaa ggc tgt gac atc aat gct atc atc 250  
 Phe Thr Arg Gln Leu Ala Asn Glu Gly Cys Asp Ile Asn Ala Ile Ile  
 50 55 60

ttt cac aca aag aaa aag ttg tct gtg tgc gca aat cca aaa cag act 298  
 Phe His Thr Lys Lys Lys Leu Ser Val Cys Ala Asn Pro Lys Gln Thr  
 65 70 75 80

tgg gtg aaa tat att gtg cgt ctc ctc agt aaa aaa gtc aag aac atg 346  
 Trp Val Lys Tyr Ile Val Arg Leu Leu Ser Lys Lys Val Lys Asn Met  
 85 90 95

taa aaactgtggc ttttctggaa tggaattgga catagcccaa gaacagaaa 399

aaccttgcctg ggggtggagg tttcacttgc acatcatgga ggggtttagtg cttatctaata 459  
 ttgtgcctca ctggacttgt ccaattaatg aagttgattc atattgcac atagtttgct 519  
 ttgtttaagc atcacattaa agttaaaactg tattttatgt tatttatagc tgtagggttt 579  
 ctgtgttttag ctatttaata ctaattttcc ataagctatt ttgggtttagt gcaaagtata 639  
 aaattatatt tgggggggaa taagattata tggactttct tgcaagcaac aagctatattt 699  
 ttaaaaaaac tatttaacat tcttttggtt atattgtttt gtctcctaaa ttgttgtaata 759  
 tgcattataa aataagaaaa acattaataa gacaaatatt 799

<210> 4  
 <211> 25  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR Primer

<400> 4  
 aaaccatgtg ctgtaccaag agttt 25

<210> 5  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR Primer

<400> 5  
 gcgcgagag gtggagta 18

<210> 6  
 <211> 28  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR Probe

<400> 6  
 gctcctggct gctttgatgt cagtgtg 28

<210> 7  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence

10033742.122801

<220>  
<223> PCR Primer

<400> 7  
gaaggtgaag gtcggagtc

19

<210> 8  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> PCR Primer

<400> 8  
gaagatgggtg atgggatttc

20

<210> 9  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> PCR Probe

<400> 9  
caagcttccc gttctcagcc

20

<210> 10  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Antisense Oligonucleotide

<400> 10  
taccaggttc tttgggagtg

20

<210> 11  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Antisense Oligonucleotide

<400> 11  
agtgttgagt acccagttct

20

<210> 12  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Antisense Oligonucleotide

1003742.122801

<400> 12  
agatctgctc agtggttgagt 20

<210> 13  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Antisense Oligonucleotide

<400> 13  
ctcaaagaac agatctgctc 20

<210> 14  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Antisense Oligonucleotide

<400> 14  
tggttttttag ctcaaagaac 20

<210> 15  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Antisense Oligonucleotide

<400> 15  
gtacagcaca tggttttttag 20

<210> 16  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Antisense Oligonucleotide

<400> 16  
aagttgcttg ctgcttctga 20

<210> 17  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Antisense Oligonucleotide

<400> 17  
cagcagtcaa agttgcttg 20

<210> 18

10033742.122801

<211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 18  
 gtgtgaaaga tgatagcatt

20

<210> 19  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 19  
 attccagaaa agccacagtt

20

<210> 20  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 20  
 gtccaattcc attccagaaa

20

<210> 21  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 21  
 cttgggctat gtccaattcc

20

<210> 22  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 22  
 caagggtctt tctgttcttg

20

<210> 23  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

10033742.122801

<220>  
 <223> Antisense Oligonucleotide  
  
 <400> 23  
 gtgaaacctc caaccccgct 20  
  
 <210> 24  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 24  
 ttagataagc actaaacctt 20  
  
 <210> 25  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 25  
 gcaatatgaa tcaacttcatt 20  
  
 <210> 26  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 26  
 actatgatgc aatatgaatc 20  
  
 <210> 27  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 27  
 atgtgatgct taaacaaagc 20  
  
 <210> 28  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Antisense Oligonucleotide  
  
 <400> 28

10033742.122801

cacagaaaac ctacagctat 20

<210> 29  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 29  
 gcactaaacc aaaatagctt 20

<210> 30  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 30  
 gcaagaaaagt ccatataatc 20

<210> 31  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense Oligonucleotide

<400> 31  
 gcaattacaa caatttagga 20

<210> 32  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221> unsure  
 <222> (1-20)  
 <223> Antisense Oligonucleotide

<400> 32  
 nnnnnnnnnn nnnnnnnnnn 20

10033742.122801